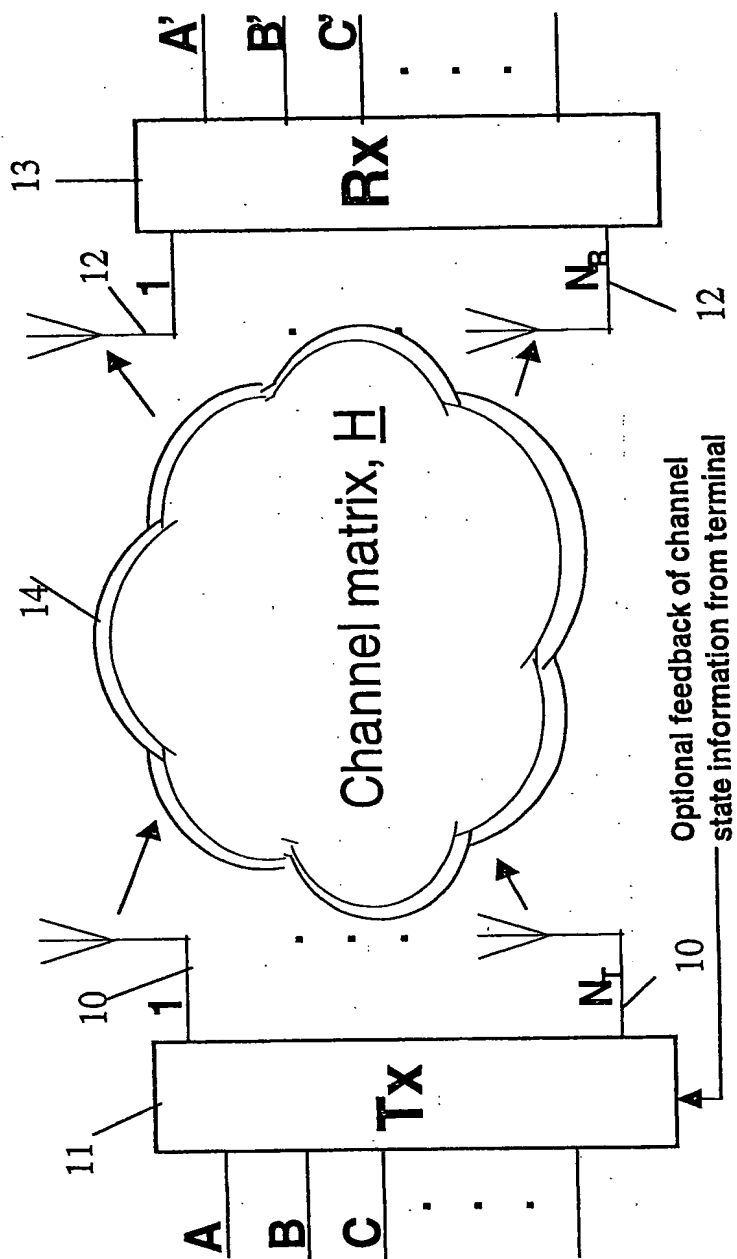


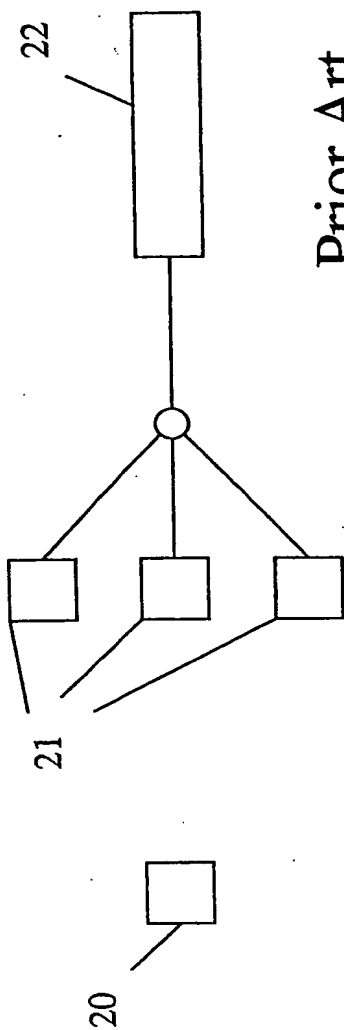
1/20 15



PRIOR ART

FIGURE 1

2/20 15



Prior Art

Figure 2a

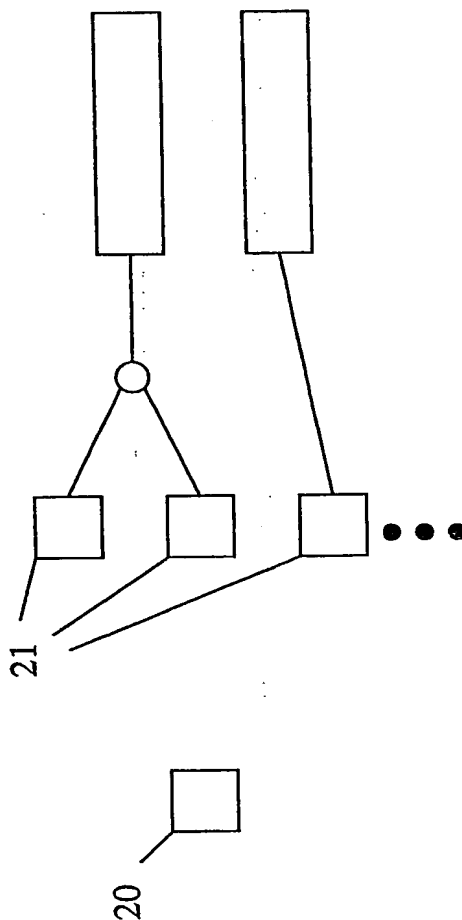
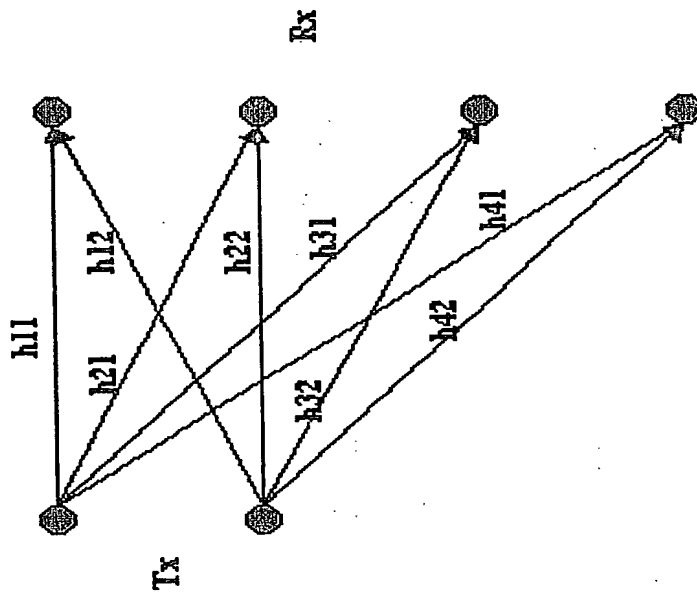


Figure 2b



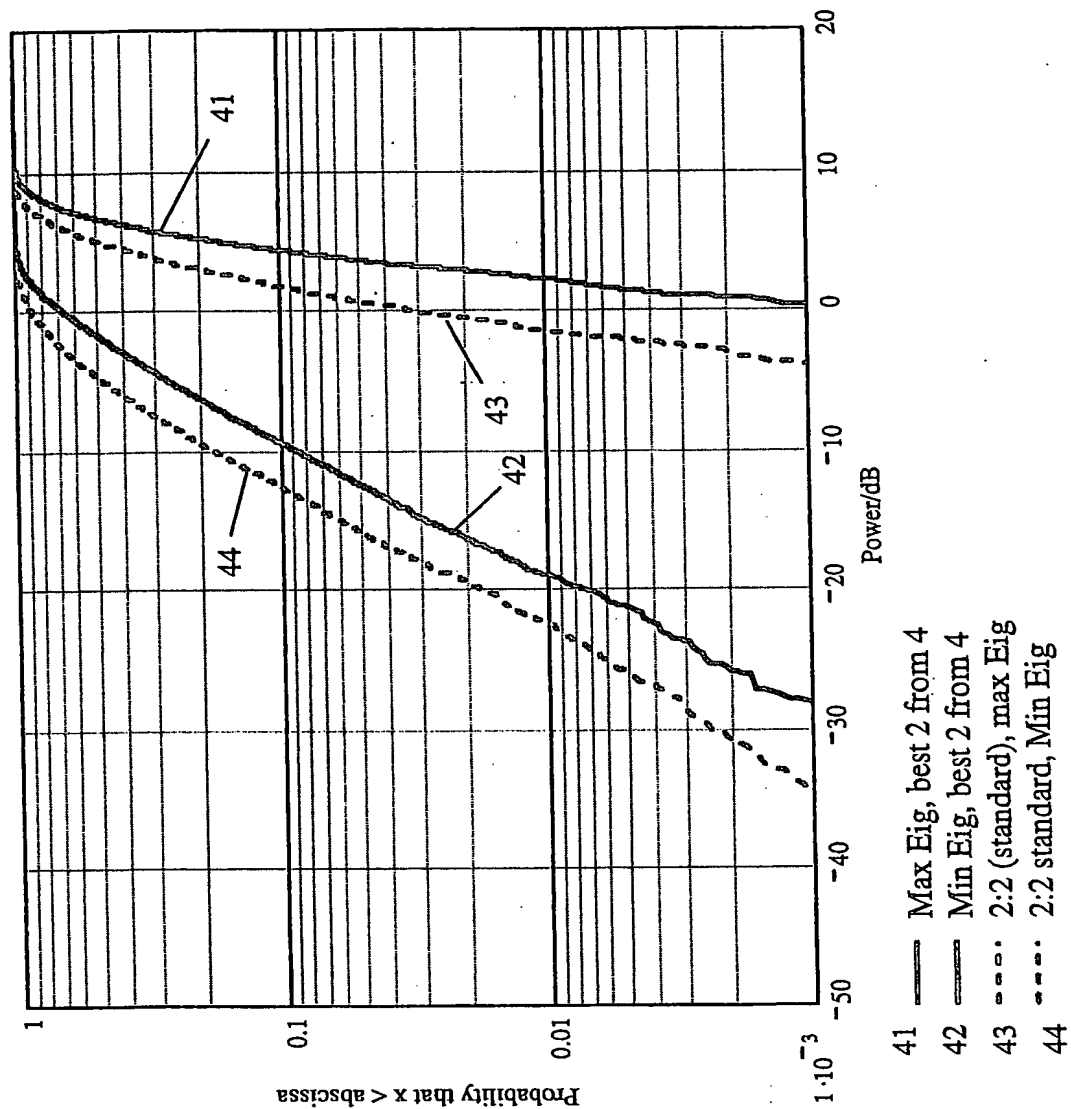
3/20 15



MIMO configuration with 2 Node B antennas and 4 UE antennas

Figure 3

4/20 15



Comparison of eigenvalues for standard 2:2 MIMO and eigenvalue selection diversity (best 2 from 4) using the maximum sum of eigenvalues as the selection metric.

Figure 4

5 10/20 15

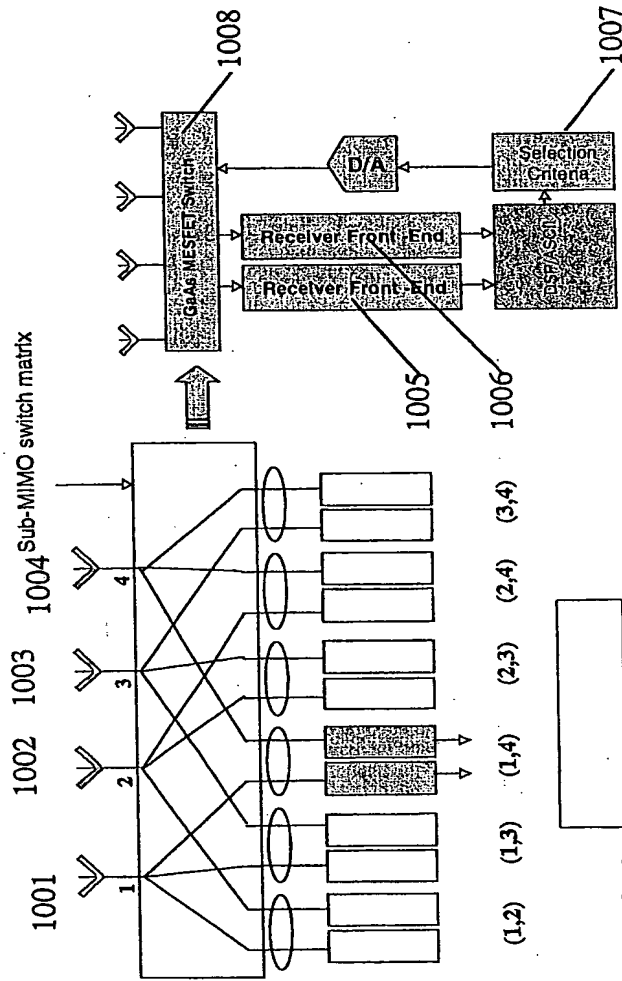


Figure 10a

5

6/11/2015

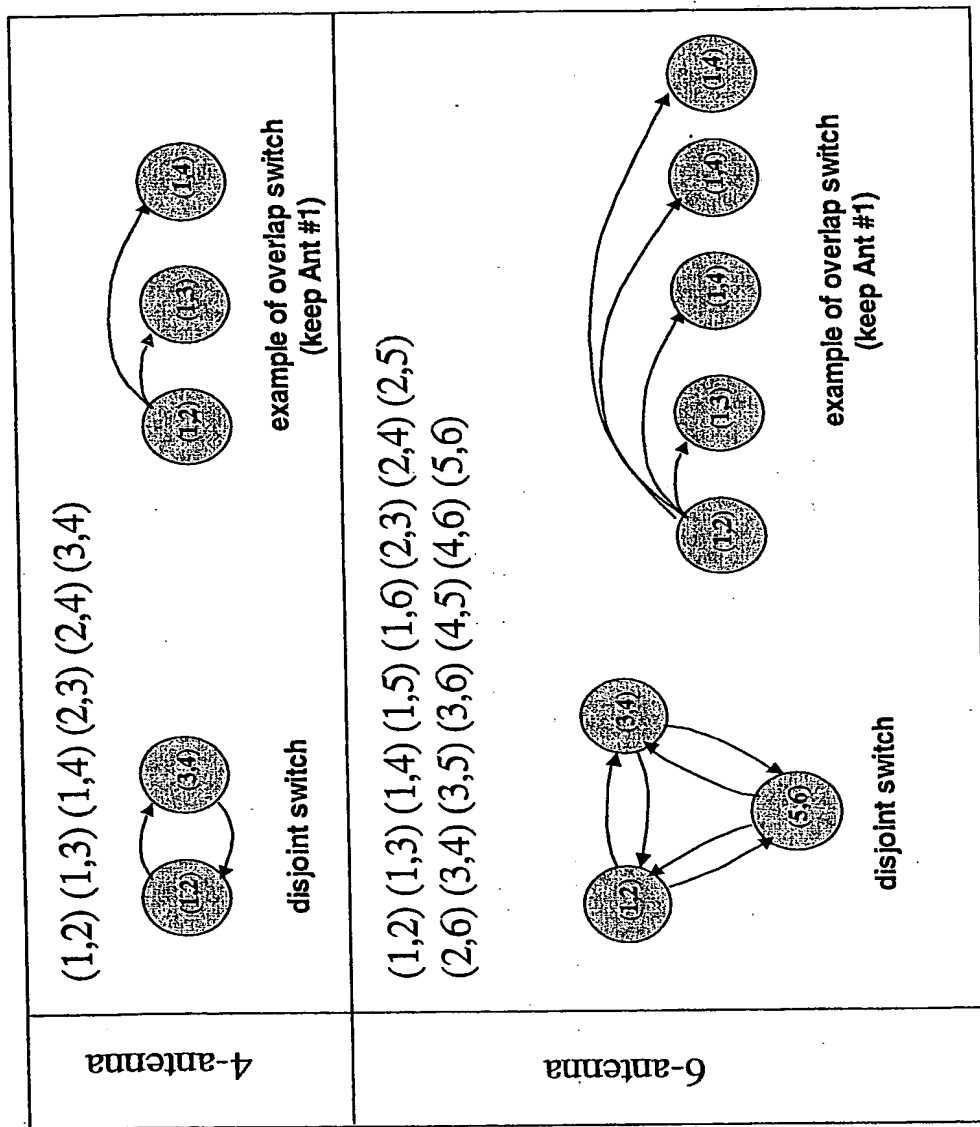


Figure 106 6

7/22/20 15

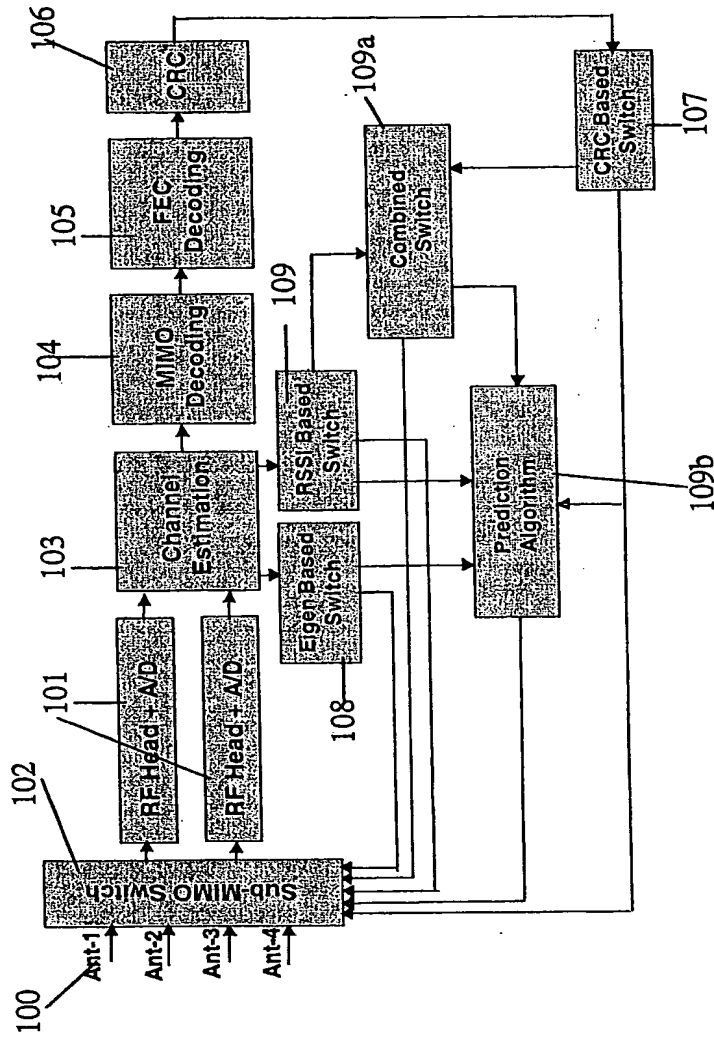


Figure 106



8/13/2015

Sub-MIMO Switching Comparison

(STTD, ITU-VA, 100km/h, QPSK, R=1/3)

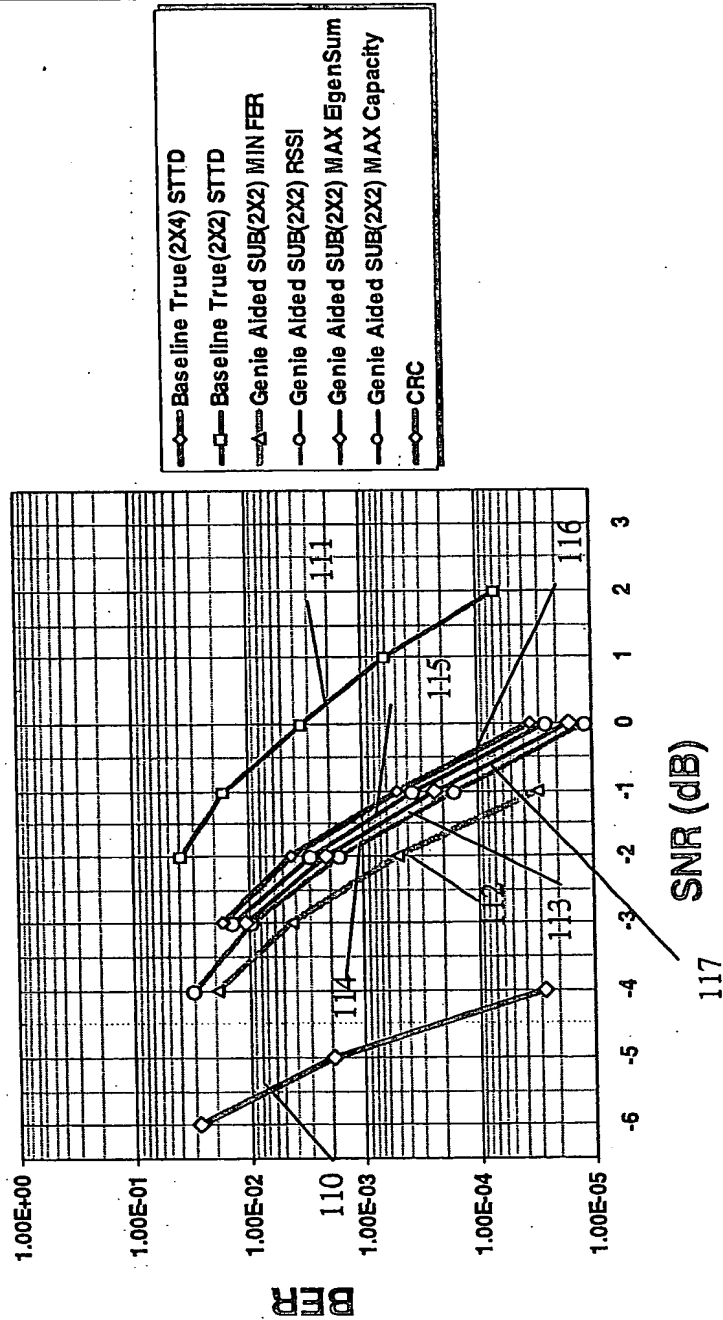


Figure 18



9 14/20 15

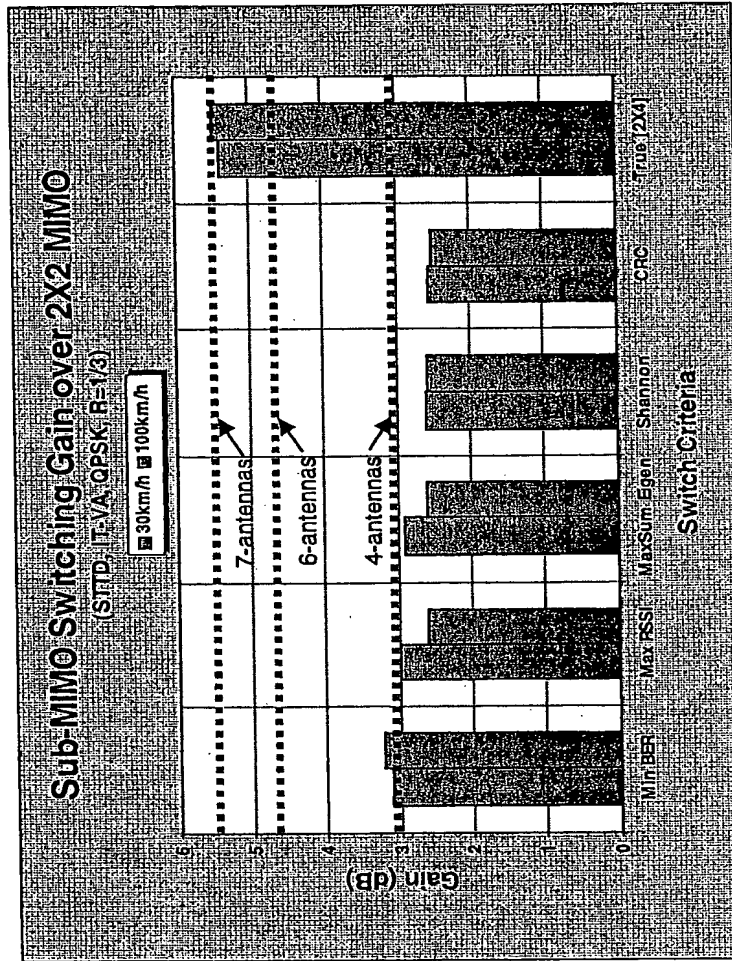


Figure 12.9



10 ~~15/20~~ 15

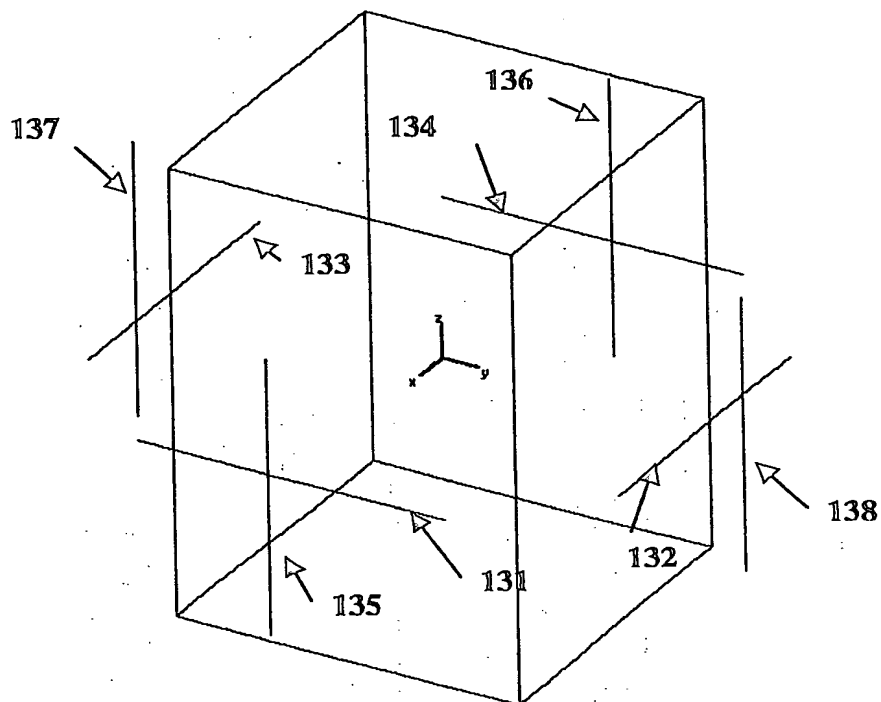


Figure ~~18~~ 10



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~~16/20~~

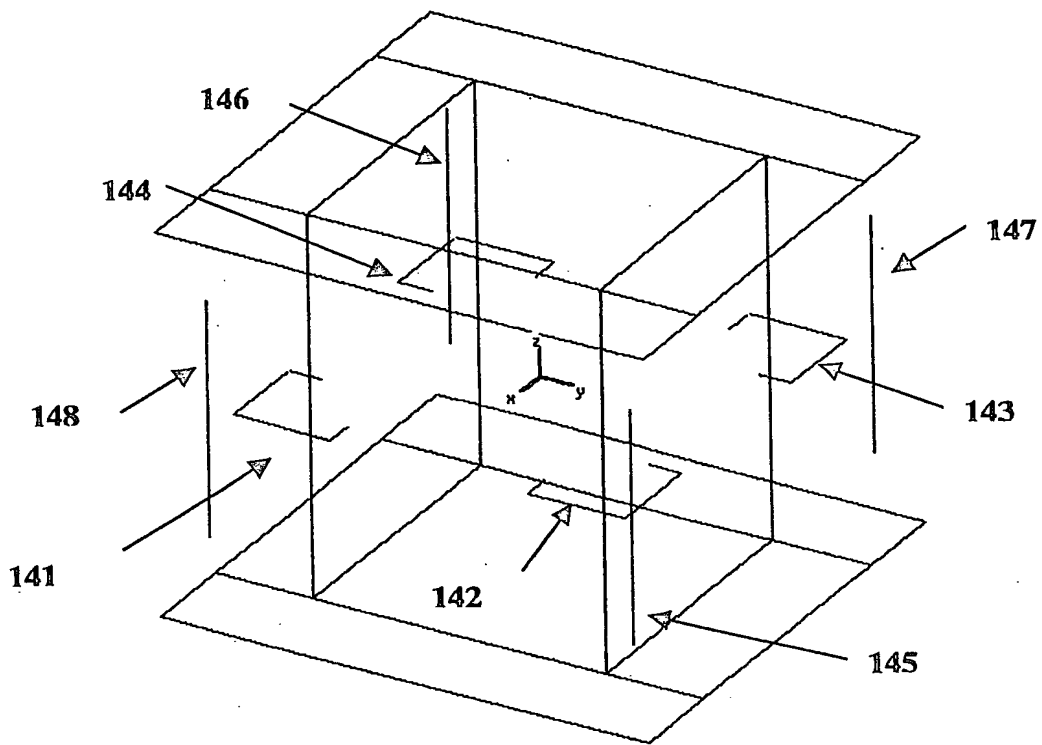


Figure ~~14~~ 11



12/17/2015

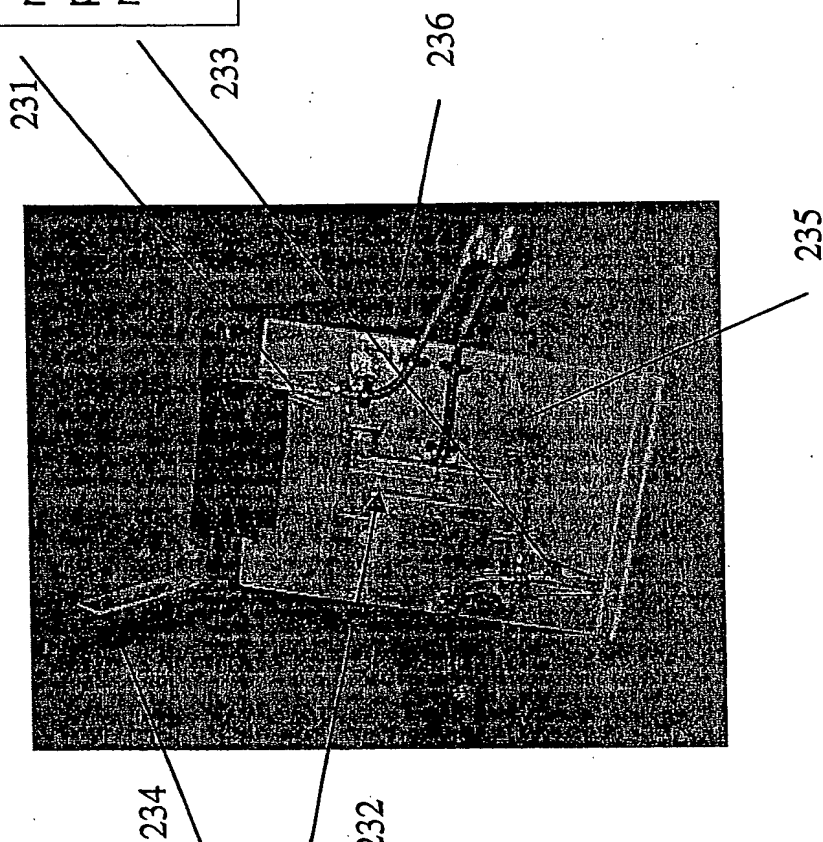
	Configuration 1		Configuration 2		
Average signal level (dB)	180°	4.6	180°	3.9	
	90°	6.7	90°	4.8	
Signal level spread (dB)	180°	1.4	180°	1.5	
	90°	0.5	90°	0.3	
Average standard deviation (dB)	180°	4.1	180°	1.7	
	90°	1.4	90°	0.4	
Lowest maximum achievable diversity gain (dB) (unit 0° orientation)	11.5		15		
Lowest maximum achievable diversity gain (dB) (unit 45° orientation)	14.5		14		

Figure 15 17



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Elements 231 &
233 – umbrella
monopoles
polarised at
nominally +45°.



Element 232 –
folded slot & 234 –
monopole, which are
nominally polarised
to -45°.

FIGURE 13



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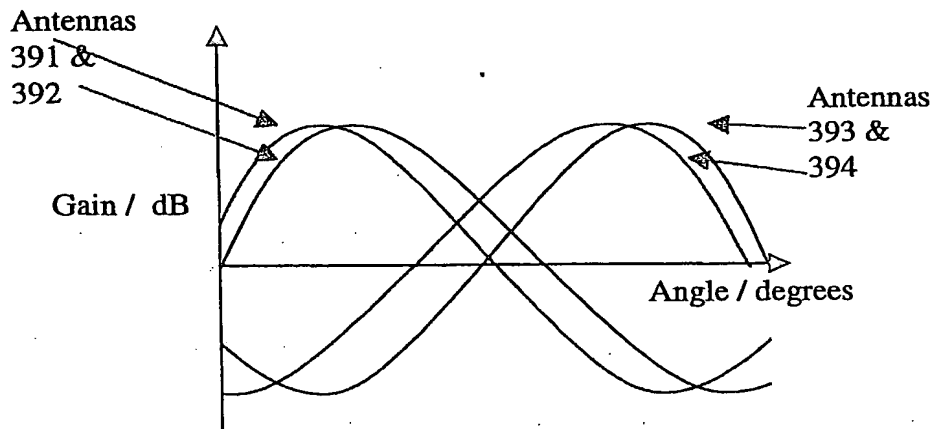


Figure ~~14~~ 14

15 20/20 15

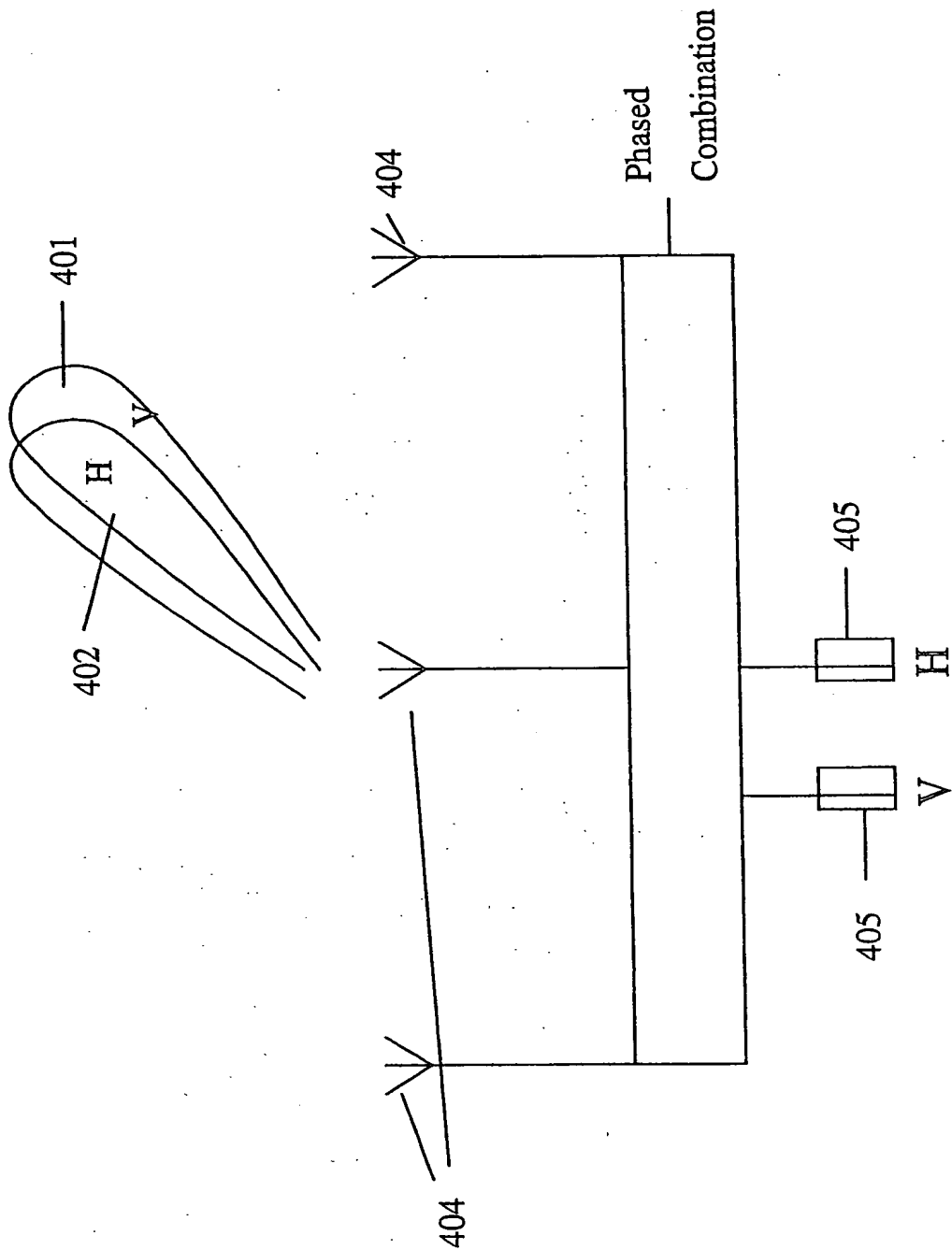


FIGURE 28 15